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CASTEL

GPS Tracker

GPS Tracking System

GPS Tracking Solutions

CHINA AEROSPACE TELECOMMUNICATIONS LTD.

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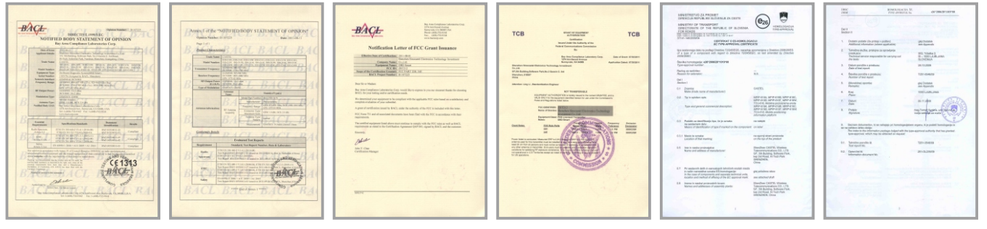
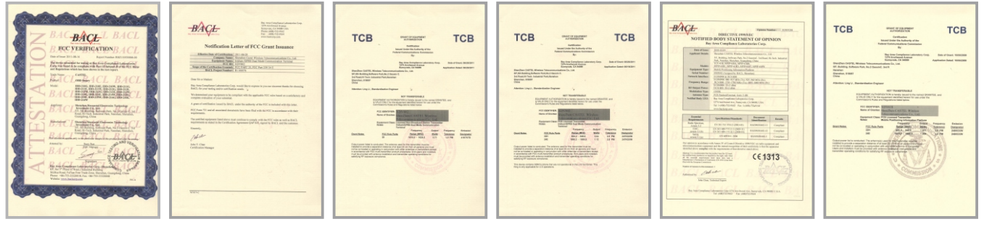
Company Profile

China Aerospace Telecommunications Limited (Castel Group for short) was founded in 1997, it is a subsidiary of China Aerospace Science and Technology Corporation (CASC). Being one of the co-founders of China GPS Association, Castel Group has over 10 years of experience in developing technology for GPS and LBS application, wireless communication, and remote access. We are also actively engaging in R&D, manufacturing and provisioning of customized integrated solutions.

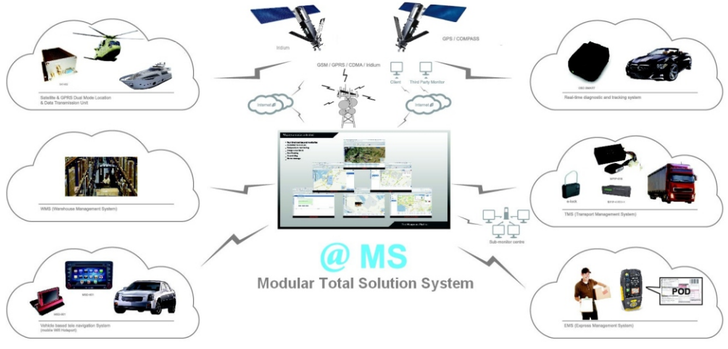
Factory

Qualification





Global Positioning System



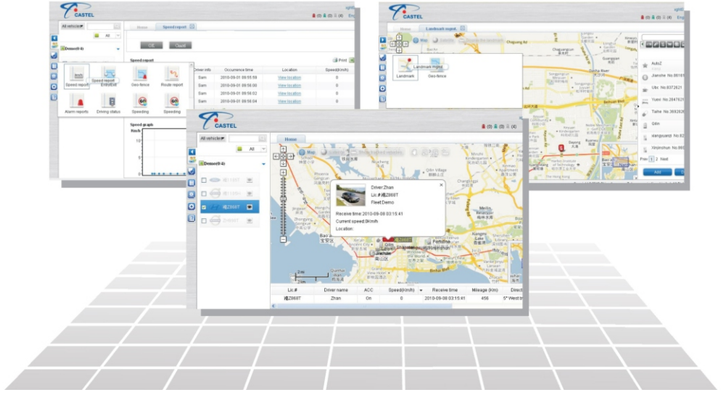
Benefit

- Enhance fleet operation efficiency. Lower the labor cost
- Reduce non-working fuel consumption. Lower the maintenance cost
- Effective working schedule. Reduce the unpredictable events

Application

- Taxi,Public Transportation, Logistics Enterprise, Government Fleet rental vehicle and Ambulance. Even, the elderly, children pets,and all your valuable assets.

GPS Tracking and Fleet Management System



Features

- Browser application. Not require client-side program
- Platform independent. Can be used in most of the computers and handheld devices
- Fleet monitoring in anytime and everywhere (Only required internet access)
- Provide global map
- Provide industrial standard interface. Seamlessly integrate with other systems
- Advanced technology, high stability and reliability
- Userfriendly operation
- Support most of the industrial application (eg. Logistics, Public transportation, etc.)

Function

- Real time tracking
- Historical tracking
- Geo-Fence
- Report generation for different management purpose
- Advanced safety and dispatching functions
- Allow peripheral device extension such as temperature sensor and LCD display (Optional)

CASTEL

MPIP-618W-A

HOT

A professional GPS tracker combines with OBD diagnostic module for passenger car&commercial vehicle.
Can do location tracking, theft tracing, vehicle diagnostic analysis, fuel consumption. Statistics, fuel left reading, mileage statistics, maintenance reminder, driving behavior analysis and RFID attendance statistics, etc.
Standard OBD port (16P/9P/6P) leads to quick&easy installation to all kinds of private cars and commercial vehicles.
The most popular and multi-functional vehicle terminal with various accessories and functions of vehicle diagnostic analysis and attendance management solutions.

Features

Easy installation, plug-n-play
Compatible to OBD protocols of Passenger Car&Commercial Vehicle
GPS location tracking
Vehicle diagnostic analysis
Mileage statistics
Maintenance reminder
Fuel consumption statistics
Remaining fuel reading
Real-time location tracking
Data storage in blind area and resend subsequently
Remote power cut-off
Monitoring, hands-free call

Technical Specifications

Dimension	66mm (W)*30mm (H)*110mm (L)
Weight	260g
Protective leverage	Aluminum IP30
Working voltage	9V-36V DC
Backup battery	3.7V/600mAH lithium battery
Normal currency	85mA stand-by power
Max. currency	<250mA@13.8V (Not including accessories)
Working temperature	-30℃ ~ +70℃
GSM frequency	Quad- band GSM 850/900/1800/1900MHz

Data	GPRS
Positioning mode	GPS (Global Positioning System)
GPS chipset	SIRF 3 high sensitivity chipset
Positioning speed accuracy	≤0.1m/s
Positioning location accuracy	≤15m
SOS button/LED indicator	LED Indicator /SOS
Certificates	FCC, CE, E-Mark
I/O port	5 input(4 digital switching or analog input, 1 digital switching input)

Optional accessory

Accessory	Standard	Optional
Power cable	Yes	
Multi-functional cable	Yes	
G-mouse	Yes	
Car fuse	Yes	
SOS button	Yes	
GSM antenna	Yes	
CD(user manual)	Yes	
Camera (1 with 4)		Yes
Camera (1 with 3)		Yes
192B convertor commercial vehicle(16pin)		Yes
192B convertor commercial vehicle(9pin)		Yes
192B convertor commercial vehicle(6pin)		Yes
Microphone		Yes
Handsfree speaker		Yes
Relay		Yes
Temperature sensor		Yes
Fuel sensor		Yes
Fuel sensor calibrator		Yes
USB serial port cable		Yes
HT-196R		Yes
HT-196		Yes
HT-192B		Yes

Scope of application

Logistics industry

Public transport industry

Driving school

Luxury car

Tourist industry

CASTEL

MPIP-619

MPIP-619 GPS tracker is based on the GSM / GPRS network and GPS satellite positioning system, which set multiple functions of security, positioning, monitoring surveillance, emergency alarms and tracking in its entirety. It can track and monitor remote target by SMS or internet.
Upgraded version of MPIP-619 will be a professional GPS tracker combines with RFID driver behaviour analysis for fleet management solutions which can do real-time location tracking, theft tracing,vehicle diagnostic analysis, fuel consumption. Statistics, fuel left reading,mileage statistics, maintenance reminder, driving behavior analysis and RFID attendance statistics, etc.
Standard OBD port (16P/9P/6P) leads to quick&easy installation to all kinds of private cars and commercial vehicles.

Features

Real-time location tracking
Vehicle diagnostic analysis
Mileage statistics
Remote power cut-off
SMS alert&configuration
SOS&over speed alarm.etc
Geo-fence
Data storage in blind area and resend subsequently
Easy installation, Plug-n-play.(optional)
Compatible to OBD protocols of passenger Car&Commercial Vehicle(optional)
Maintenance reminder, Fuel consumption statistics(optional)
Driver behavior analysis(optional)

Technical Specifications

Dimension	48mm (W)*20mm (H)*75mm (L)
Weight	70g
Protective leverage	Ip54
Shell Material	Plastic shell
Working voltage	9V-36V DC
Standby battery	3.7V /300mAH Li-ion battery
Max input voltage	100V
Max operation current	<250mA@13.8V
Data TX/RX current	<150 mA@13.8V

Standby current	<90mA@13.8V
Sleep current	<40mA@13.8V
Operation temperature	- 30℃ ~ + 70℃
Storage temperature	- 40℃ ~ + 85℃
Relative humidity	5% ~ 95%
Positional accuracy	<15m
LED indicator	LED Indicator
Frequency range	Quad- band GSM 850/900/1800/1900MHz GPS 1575.42MHz

Optional accessory

Accessory	Standard	Optional
Power cable	Yes	
Insurance Cable	Yes	
G-mouse	Yes	
CD(user manual)	Yes	
Multi-function cable		Yes
SOS button		Yes
192B Patch Cord (16PIN-9PIN)		Yes
192B Patch Cord (16PIN-16PIN)		Yes
192B Patch Cord(16PIN-6PIN)		Yes
Engine cut off relay		Yes
USB setting cable		Yes
HT-195B OBD Detection Device		Yes
HT-196R Driving Behavior Analyzer		Yes
HT-196R(RFID)		Yes

Scope of application

Logistics industry

Public transport industry

Driving school

Luxury car

Tourist industry

CASTEL

MPIP-620

MPIP-620 is professional motor gps tracker which is portable and easy install.
It can track motor in real-time by GPRS&SMS. Together with user-friendly Android&IOS APP.

Features

Track by SMS/GPRS
Timing positioning
Built-in motion sensor
Check the history of route on platform
Power Saving Mode
Google map on mobile
Geofence and movement alert
Overspeed alert
Low Battery Alarm
SOS Alarm
Mileage report
Android&IOS APP

Technical Specifications

Dimension	48mm (W)*20mm (H)*75mm (L)
Weight	80g
Protective leverage	Ip54
Shell Material	Plastic shell
Working voltage	9V-36V DC
Standby battery	3.7V /850mAH Li-ion battery
Max input voltage	100V
Max operation current	<250mA@13.8V
Data TX/RX current	<150 mA@13.8V

Standby current	<60mA@13.8V
Sleep current	<20mA@13.8V
Operation temperature	- 30℃ ~ + 70℃
Storage temperature	- 40℃ ~ + 85℃
Relative humidity	5% ~ 95%
Positional accuracy	<15m
LED indicator	LED Indicator
Frequency range	Quad- band GSM 850/900/1800/1900MHz GPS 1575.42MHz

Optional accessory

Accessory	Standard	Optional
Power cable	Yes	
Insurance Cable	Yes	
CD(user manual)	Yes	
Power&fuel supply cut-off relay		Yes
Multi-function cable		Yes
USB Setting Cable		Yes

Scope of application

Logistics industry

Public transport industry

Motorsycle

Luxury car

Tourist industry

CASTEL

PT-718

PT-718 is portable personal gps tracker with low power consumption. Working based on existing GSM /GPRS network and GPS satellites, this small and powerful tracking device is developed for personal, vehicle and pet etc. Not only transmit the longitude and latitude coordinate to your cell phone by SMS, but also transmitting the longitude and latitude coordinate to the designated server by GPRS and then displaying the location by tracking software.

Features

SOS alert
Monitoring function,Timing position
Real-time positioning
GPS&A-GPS dual position mode
Built-in high capacity battery
GSM 850/900/1800/1900
Battery low power alert
Track by SMS/GPRS
Geo-fence alert
Android&IOS APP
Low energy consumption
Long standby time

Technical Specifications

Dimension	40mm (W)*16.5mm (H)*63mm (L)
Weight	50g
Shell Material	ABS+PC
Battery	3.7V /1200mAH Li-ion battery
Max operation current	<260mA
Data TX/RX current	<120mA
Standby current	<5mA
Charge current	400mAh
Charge duration	2H

Scope of application

Pet

Personal

PT-690

PT690 is a portable pet gps tracker. Based on existing GSM /GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS or internet.

Features

High sensitivity GPS receiver
Subminiature plastic shell
GPS&A-GPS dual position mode
GSM 850/900/1800/1900
Android&IOS APP
SOS alert
Geo-fence alert
Low energy consumption
Built-in high capacity battery

Technical Specifications

Dimension	75mm (W)*34mm (H)*7mm (L)
Weight	40g
Shell Material	ABS+PC
Battery	3.7V /500mAH Li-ion battery
Max operation current	<200mA
Standby current	<5mA
Charge current	600mAh
Charge duration	2H

Scope of application

Pet

Personal

CASTEL

IDD-212GL

HOT

IDD-212GL is designed for real-time vehicle diagnostic and tracking purpose. It comes with quad-band GSM/GPRS function and an external GPS (G-mouse or HT-196 versions) available for tracking. It could read OBD parameters from car ECU and capture GPS data via the external GPS then transmit to the backend server for remote diagnostic and tracking purpose.
For 212GL with HT-196 version, sharp turning, quick-line change, impact alarm, RFID ID check can be achieved.

Features

Compact design, plug-and-play
Compliant with all cars with OBD II
Diagnostic trouble codes OBD code monitoring
Engine live data reading including RPM, speed, ECT, MAF, TP etc
Real-time alarm for the hard acceleration, hard deceleration, idle engine, speeding
Quick turning, quick change lane, collision etc (HT-196,optional)
Real time location tracking and history trace replay
Fuel consumptions monitoring
Mileage
RFID driver ID checking (HT-196R,optional)
Low voltage monitoring

Technical Specifications

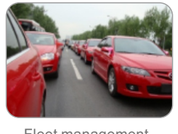
Dimension	50mm(L)x 28mm(W)x 63mm(H)
Weight	50g
Protocols	SAE J1850 PWM, SAE J1850 VPW ISO9141-2, ISO 14230-4, ISO 15765-4, J1939, J1708
Working voltage	9-36VDC
Normal currency	<150mA@13.8VDC
Max. currency	<200mA@13.8VDC
Sleep mode currency	<10mA@12VDC
Internal battery	3.7V/120mAH
Working temperature	-30℃ ~ +70 ℃
Storage temperature	-40℃ ~ +85 ℃

Humidity	5%～95% (no frog)
GSM frequency	850/900/1800/1900MHz
Communication protocol	Embedded TCP/IP stack
GPS channels	50 parallel channels
Position mode	GPS and AGPS
Cold start	29s(Typical)
Warm start	29s(Typical)
Hot start	<1s(Typical)
Assist mode	<1s(Typical)
Position accuracy	1~5m(Typical)
Tracking sensitivity	-160dBm(Typical)

Optional accessory

Accessory	Standard	Optional
G-mouse	Yes	
User manual	Yes	
Set the USB line		Yes
HT-196R		Yes
HT-196		Yes
OBD Extension cord 16P(9)		Yes
OBD Extension cord 16P(8)		Yes
OBD Extension cord 9P		Yes
OBD Extension cord 6P		Yes

Scope of application


Fleet management and vehicle tracking

Car rental industry

Vehicle insurance

Driving school

Car service shop

CASTEL

IDD-213GL

HOT

IDD-213GL is an intelligent on-board diagnostic device compatible with passenger and commercial vehicles, it features plug-and-play technology, could read diagnostic info from vehicle ECU and capture location data, then send them to backend server for real-time remote diagnostic and tracking purpose.

Features

Industrial class components with high quality
OBD II/EOBD, J1939 and J1708 compliant
Plug & Play technology
Comprehensive data collection and analysis, including diagnostic data, location data and driving behavior data
Real-time tracking
Read diagnostic data, including vehicle speed, RPM, ECT etc.
Read diagnostic trouble codes and freeze frame data
Mileage statistic
Fuel consumption statistic
Up to 24,000 GPS data storage

Technical Specifications

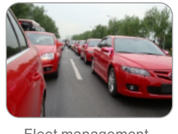
Dimension	63mm(L)x 48mm(W)x 28mm(H)
Weight	50g
Protocols	SAE J1850 PWM , SAE J1850 VPW, ISO 9141-2, ISO 14230-4, ISO 15765-4, SAE J1939, J1587, J1708
Working voltage	9-36VDC
Normal currency	<150mA@13.8/27.6VDC
Max. currency	<200mA@13.8/27.6VDC
Sleep mode currency	<10mA@12/24VDC
Internal battery	3.7V/160mAH
Working temperature	-30℃ ~ +70 ℃
Storage temperature	-40℃ ~ +85 ℃

Humidity	5%～95% (no frog)
GSM frequency	850/900/1800/1900MHz
Communication protocol	Embedded TCP/IP stack
GPS channels	50 parallel channels
Position mode	GPS and AGPS
Cold start	32s(Typical)
Warm start	32s(Typical)
Hot start	<1s(Typical)
Data transmission	GPRS/SMS
GPS Accuracy	5m CEP
Tracking sensitivity	-160dBm(Typical)

Optional accessory

Accessory	Standard	Optional
Configuration cable		Yes
OBD II extension cable		Yes
9-Pin deutsch wiring harness		Yes
6-Pin deutsch wiring harness		Yes
SOS button		Yes
Power Cable		Yes

Scope of application


Fleet management and vehicle tracking

Car rental industry

Vehicle insurance

Driving school

Car service shop

CASTEL

IDD-213E

HOT

IDD-213 E is an intelligent on-board diagnostic and all-in-one device compatible with passenger and commercial vehicles, it features plug-and-play technology, could read diagnostic info from vehicle ECU and capture location data, then send them to backend server for real-time remote diagnostic and tracking purpose.

Features

Industrial class components with high quality
OBD II/EOBD, J1939 and J1708 compliant
Plug&Play technology
Comprehensive data collection and analysis, including
diagnostic data, location data and driving behavior data
Real-time tracking
Read diagnostic data, including vehicle speed, RPM, ECT etc.
Read diagnostic trouble codes and freeze frame data
Mileage statistic
Fuel consumption statistic
SMS alarm to user phone
Connect backend server via domain or IP address

Technical Specifications

Dimension	63mm (L) x 48mm (W) x 28mm (H)
Weight	50g
Protocols	SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2 ISO 14230-4, ISO 15765-4, SAE J1939, J1587/J1708
Working voltage	9-36VDC
Normal currency	<150mA@13.8/27.6VDC
Max. currency	<200mA@13.8/27.6VDC
Sleep mode currency	<10mA@12/24VDC
Internal battery	3.7V/160mAH
Working temperature	-30℃ ~ +70 ℃
Storage temperature	-40℃ ~ +85 ℃

Humidity	5%~95% (no frog)
Storage	2MB FLASH, up to 24,000 GPS data storage
Communication protocol	Embedded TCP/IP stack
GPS channels	48 parallel channels
Position mode	GPS
Certification	CE, GCF (Europe)
Cold start	32s(Typical)
Hot start	<1s(Typical)
Data transmission	Packet data (GPRS or HSPA) and SMS
Gps Accuracy	5m CEP
Tracking sensitivity	-163dBm

Optional accessory

Accessory	Standard	Optional
Configuration cable		Yes
OBD II extension cable		Yes
9-Pin deutsch wiring harness		Yes
6-Pin deutsch wiring harness		Yes
Power cable		Yes
SOS button		Yes

Scope of application

Fleet management and vehicle tracking

Car rental industry

Vehicle insurance

Driving school

Car service shop

CASTEL

IDD-213TH

IDD-213TH is a certified quad-band, 3-axis accelerometer and GPS integrated OBD GPS Tracker. Only need to plug it on OBD II interface, it will provide real-time tracking and monitoring solutions for fleet management, insurance, or car leasing etc.

Features

Compact design, plug-and-track function
Real-time tracking and history trace replay
Data storage in blind area and upload automatically when GPRS network recover
Geo-fence
Mileage
Abnormal alerting: speeding and low voltage alarm etc
SMS Location Inquiry
GPRS & SMS dual mode communication

Technical Specifications

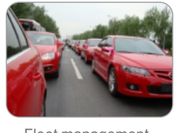
Dimension	50mm(L)x 28mm(W)x 63mm(H)
Weight	50g
Storage flash	2MB,can store 24000GPS points data
Communication mode	GPRS/SMS
Position	GPS/A-GPS
Working voltage	9-36VDC
Normal currency	<150mA@3.8VDC
Max. currency	<200mA@13.8VDC
Sleep mode currency	<10mA@12VDC
Internal battery	3.7V/150mA lithium battery

GSM frequency	850/900/1800/1900MHz four frequency
GPS channels	50
Sensitivity	-160dBm
Accuracy	5m CEP
Cold start	<32s
Hot start	<1s

Optional accessory

Accessory	Standard	Optional
User manual	Yes	
Set the USB line		Yes
GPS external antenna		Yes
OBD Extension cord 16P(9)		Yes
OBD Extension cord 9P		Yes
OBD Extension cord 6P		Yes

Scope of application



Fleet management and vehicle tracking

Car rental industry

Vehicle insurance

CASTEL

IDD-212B

OBD Bluetooth Reader IDD-212B is a pure OBD reader with Bluetooth module, it captures vehicle data and real time display on your smart phone/PND or CPND/PAD which is based on Android system for a real time view of your vehicle status, a communication box with GPS and GSM module built in allowed to be connected with IDD-212B to transmit the data to the backend server.

Features

Compact design, easy installation
Industrial class components with high quality performance
Car running condition parameters reading including RPM, speed, ECT, MAF, TP etc and real time vehicle data transmission to your phone
Car health status inspects and report
Real time DTC list and maintenance/repair suggestions
Driving behaviour analysis

Technical Specifications

Dimension	46mm (L) x 43mm (W) x 26mm (H)
Weight	35g
Protocols	J1850-VPW、J1850-PWM、KWP2000、ISO9141、ISO15765
Working voltage	9-16VDC
Normal currency	<50mA@13.8VDC
Sleep mode currency	<20mA@12VDC
Interface	OBD interface,RS-232 interface
Data transmission	Bluetooth
Working temperature	-30℃ ~ +70 ℃
Storage temperature	-40℃ ~ +85 ℃

Humidity	5%～95% (no frog)
Storage	16MB FLASH, store up to 300 hours trip data
LED Indication	Bluetooth/OBD/Power indication
Buzzer	System status/Alarm indication
Bluetooth Specification	V3.0/4.0+EDR,Class II
Bluetooth Frequency	2.4-2.48GHz
Bluetooth Modulation	GFSK、Π/4-DQPSK、8DPSK
Bluetooth Range	10m (Max. no shield)
Bluetooth Antenna	built in
3 axis Accelerometer	+/-2g, +/-8g, driving behavior detection
Bluetooth sensitivity	-85dBm@0.1%BER

Optional accessory

Accessory	Standard	Optional
IDD-212B OBD Dongle	Yes	
User manual	Yes	
USB Configuration Cable		Yes
G-Mouse (HT-166U)		Yes
OBD extension cable		Yes

Scope of application

Fleet management and vehicle tracking

Car rental industry

Vehicle insurance

Driving school

Car service shop

CASTEL

IDD-218G

IDD-218G is a highly integrated telematics device for insurance and fleet management, delivers industry best and proven advanced performance. It features plug-and-play technology, monitors vehicle location, high-risk driving behavior and vehicle live data, identifies drivers, sends collected data to cloud-based backend server for real-time monitoring and various kinds of insightful management reports.

Features

Industrial class components with high quality
Plug & Play via OBD II port and self installation
Innovative algorithm of driving behavior detection for safety driving and fuel-efficient
Driver identification with built-in RFID reader
Passenger and commercial vehicle support, industry leading vehicle compatibility
Engine diagnostics
GSM jamming detection
Comprehensive data collection and analysis, including location data, driving behavior data and diagnostic data

Technical Specifications

Dimension	100mm (L) x 60mm (W) x 30mm (H)
Weight	80g
Protocols	SAE J1850 PWM, SAE J1850 VPW,ISO 9141-2 ISO 14230-4, ISO 15765-4, SAE J1939, J1587/J1708
Working voltage	9-36VDC
Normal currency	<150mA@13.8VDC
Max. currency	<200mA@13.8VDC
Sleep mode currency	<10mA@12VDC
Internal battery	3.7V/160mAH
Working temperature	-30℃ ~ +70 ℃
Storage temperature	-40℃ ~ +85 ℃

Humidity	5%～95% (no frog)
GSM frequency	850/900/1800/1900MHz
Communication protocol	Embedded TCP/IP stack
GPS channels	50 parallel channels
Position mode	GPS/A-GPS
Cold start	29s(Typical)
Hot start	1s(Typical)
Data transmission	GPRS/SMS
RFID frequency	125KHz
GPS accuracy	5m CEP
Tracking sensitivity	-160dBm

Optional accessory

Accessory	Standard	Optional
G-mouse		Yes
Configuration cable		Yes
OBD II component		Yes
OBD II extension cable		Yes
9-Pin deutsch wiring harness		Yes
6-Pin deutsch wiring harness		Yes

Scope of application

Fleet management and vehicle tracking

Car rental industry

Vehicle insurance

Driving school

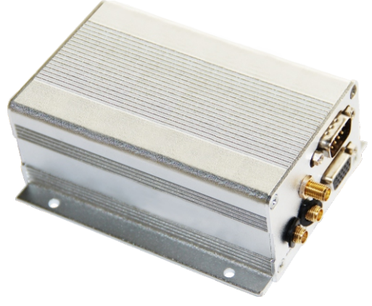
Car service shop

CASTEL

SAT-802

HOT

SAT-802 is dual mode Iridium&GSM tracker that combines with Iridium SBD and GPRS to send gps data globally.
It is suitable for global vehicle tracking&fleet management solutions at lower cost by its intelligent working mode.
Best choice for air, sea, mountain, desert, etc, anwhere on earth. Full coverage in global. No Blind Area.



Features

Dual mode communication: Iridium SBD and GPRS
Auto choose communication channel, GPRS is top priority
Global GPS location tracking
Relative lower monthly cost
SOS
Geo-fence
Dual RS232 extend:temperature sensor, 3 channel camera, LCD screen
5 I/O
OTA wireless upgrading
Air, sea, mountain, desert, etc, anwhere on earth. Full coverage in global, no blind area
Leverage on GSM and Iridium satellite networks, able to switch automatically, depending on GSM

Technical Specifications

Dimension	86mm (W)*43mm (H)*113mm (L)
Data transmission	Iridium SBD and GPRS communication
Protective leverage	Aluminum IP30
Working voltage	9V-36VDC
Max. currency	<450mA@13.8V(transient peak current:2W) Network communication protocol:embedded TCP/IP protocol stack, support TCP/IP.
Working temperature	-30℃ ~ +70℃
Shell material	Aluminum
Iridium model	Iridium 9602

Frequency	1616 ~ 1626.5 MHz
Iridium upstream data	Maximum length is 340bytes
Transmission delay	10-60 seconds(because of galaxy switch)
Iridium downstream data	Maximum length is 270bytes
GSM model	SIMCOM SIM340DZ
GSM/GPRS frequency	850/900/1800/1900MHZ quad-band
GPS model	50 channel u-blox 5 engine
GPS position accuracy	10M
Position mode	GPS

Optional accessory

Accessory	Standard	Optional
802 power cable	Yes	
GSM antenna	Yes	
Velcro(802)	Yes	
SOS button	Yes	
Iridium antenna(square)	Yes	
GPS antenna	Yes	
CD(user manual)	Yes	
Camera (1 with 3)		Yes
Relay		Yes
Temperature sensor		Yes
Iridium antenna (round)		Yes
Microphone		Yes
Handsfree speaker		Yes
802 external audio serial port		Yes
Buzzer		Yes

Scope of application

Truck (mining truck, cross-border vehicle)

Helicopter (medicine, off-shore oil, tour and air-taxi service)

Ship (yacht, container ship)

Luxury car

CASTEL

SAT-802S

HOT

SAT-802S is dual mode Iridium&GSM tracker that combines with Iridium SBD and GPRS to send gps data globally.
It is suitable for global vessel tracking solutions at lower cost by its intelligent working mode. Best choice for air, sea, mountain, desert, etc, anwhere on earth. Full coverage in global. No blind area.

Features

Dual mode communication: Iridium SBD and GPRS
Auto choose communication channel, GPRS is top priority
Global GPS location tracking
Global text message transmission
Relative lower monthly cost
SOS
Geo-fence
Dual RS232 extend: temperature sensor, 3 channel camera, LCD screen
5 I/O
OTW wireless upgrading
Air, sea, mountain desert, etc, anywhere on the earth, full coverage in global, no blind area.
Leverage on GSM and Iridium satellite networks,able to switch automatically, depending on GSM

Technical Specifications

Dimension	230mm (W)*230mm (H)*69mm (L)
Data transmission	Iridium SBD and GPRS communication
Protective leverage	Aluminum IP65
Working voltage	9V-36V DC
Max. currency	<450mA@13.8V(transient peak current:2W) Network communication protocol:embedded TCP/IP protocol stack, support TCP/IP.
Working temperature	-30℃～＋70℃
Shell material	PC+ABS（PC30% ABS70%）
Iridium model	Iridium 9602

Frequency	1616 ～ 1626.5 MHz
Iridium upstream data	Maximum length is 340bytes
Transmission delay	10-60 seconds(because of galaxy switch)
Iridium downstream data	Maximum length is 270bytes
GSM model	SIMCOM SIM340DZ
GSM/GPRS frequency	850/900/1800/1900MHZ quad-band
GPS model	50 channel u-blox 5 engine
GPS position accuracy	10M
Position mode	GPS

Optional accessory

Accessory	Standard	Optional
802S power cable	Yes	
Iridium antenna (round)	Yes	
GPS antenna	Yes	
CD(user manual)	Yes	
Camera (1 with 3)		Yes
Temperature sensor		Yes
SOS button		Yes
Iridium antenna(square)		Yes
Microphone		Yes
Handsfree speaker		Yes
802S external audio serial port		Yes
Buzzer		Yes
Relay		Yes

Scope of application

Truck (mining truck, cross-border vehicle)

Helicopter (medicine, off-shore oil, tour and air-taxi service)

Ship (yacht, container ship)

Luxury car

CASTEL

SAT-803

SAT-803 is a global GPS tracker with two communication modes(GPRS& Iridium), and it can choose them intelligently based on GPRS network's signal condition, which can both guarantee the communication and reduce the cost. Iridium network can guarantee the data communication anywhere avoid influence of weather, elevation, ionized stratum and distance. It specially suits for marine affairs, aviation, remote area's vehicle and unattended station.
SAT-803 has structure of MCU+GPRS module G610+Iridium9602+G-Mouse.
It is made up of main unit, G-Mouse, Iridium antenna, GSM antenna, power cable and relative optional accessories.

Features

High sensitivity GPS receiver
Inbuilt Iridium SBD9602 module
Industrial grade high stability GSM module
Alloy shell, easy installation, covert, anti-knock, anti high&low temperature
Variety interface, access to all kinds of vehicle device
Remote maintenance&upgrade, reduce cost
Tracking&positioning, vehicle status detection, abnormity alarm, data unvarnished transmission
Voice call, TXT message, photo taking, temperature monitoring
Iridium/GSM intelligent two-mode
Blind area data store and reupload
Intelligent power save mode
Mileage statics
LED indicator

Technical Specifications

Dimension	66mm (W)*36mm (H)*110mm (L)
Data transmission	Iridium SBD and GPRS communication
Protective leverage	Aluminum IP30
Working voltage	9V-36VDC
Max. currency	<450mA@13.8V(moment max current 2A)
TX/RX current	<350 mA@13.8V
Standby current	<145mA@13.8V (100)
Sleep current	<95mA@13.8V (20)
Working temperature	-30℃ ~ +70℃
Iridium Module	SBD9602

Frequency	1616-1616.5MHz
Uplink capacity	Max length 340bytes
Transmission delay	10-60 seconds(satellite switch)
Iridium downstream data	Max length 270bytes
GSM model	SIM800H
GSM/GPRS frequency	850/900/1800/1900MHZ quad-band
GPS model	50 channel u-blox 5 engine
GPS position accuracy	2.5 m CEP
Position mode	GPS
GPS speed	500 m/s (972 knots)

Optional accessory

Accessory	Standard	Optional
Power Cable	Yes	
G-Mouse	Yes	
GSM antenna	Yes	
Iridium antenna(square)	Yes	
GPS antenna	Yes	
Multi function cable	Yes	
SOS button	Yes	
CD	Yes	
Louder Speaker		Yes
Hand Shank		Yes
Microphone		Yes
USB setting cable		Yes
Fuel&power supply cutting off relay		Yes
Buzzer		Yes
Camera		Yes
Temperature Sensor		Yes
Iridium Antenna (mushroom)		Yes

Scope of application

Truck (mining truck, cross-border vehicle)

Helicopter (medicine, off-shore oil, tour and air-taxi service)

Ship (yacht, container ship)

Luxury car

CASTEL

Function Comparasion Sheet

Function	Model					
	MPIP-618W-A	MPIP-619	MPIP-620	IDD-212GL	IDD-213GL	IDD-213E
Iridium communication(global data transmission)						
GSM+GPS module	√	√	√	√	√	
UMTS+GPS module						√
Bluetooth module						
Dimension(mm)	66×30×110	75×48×20	75×48×20	50×28×63	48×28×63	48×28×63
Weight	260g	70g	80g	50g	50g	50g
Waterproof	Ip30	Ip54	Ip54	Ip30	Ip30	Ip30
Easy installation	√	√	√	√	√	√
Global Position Tracking	√	√	√	√	√	√
Track on demand	√	√	√	√	√	√
Tracking by time interval	√	√	√	√	√	√
OBD communication protocol	√			√	√	√
Diagnostic analysis	√			√	√	√
Package upload	√	√	√	√	√	√
Mileage statistics	√	√	√	√	√	√
Maintenance reminder	√	√	√	√	√	√
Fuel comsumption statistics	√		√	√	√	√
Low voltage alarm	√	√	√	√	√	√
Alarm SMS reminder	√	√	√	√	√	√
Over coolant temperature alarm	√			√	√	√
High RPM alarm	√			√	√	√
Fatigue drive alarm	√			√	√	√
SOS alarm	√	√	√		√	√
Speeding alarm	√	√	√	√	√	√
Route section speeding alarm	√	√	√			
Route yaw alarm	√	√	√			
Geo-fence	√	√	√	√	√	√
ACC ON/OFF alarm	√	√	√	√	√	√

Function	Model					
	MPIP-618W-A	MPIP-619	MPIP-620	IDD-212GL	IDD-213GL	IDD-213E
Blind area store/resend	√	√	√	√	√	√
Call center command	√	√	√	√	√	√
Temperature measurement	√					
RFID Attendance statistics	√	√	√	√		
Backup battery	3.7V/500mAh	3.7V/850mAh	3.7V/500mAh	3.7V/120mAh	3.7V/160mAh	3.7V/160mAh
Intelligent power saving mode	√	√	√	√	√	√
OTA (update by wireless)	√	√	√	√	√	√
Analog input	4					
Digital input	1	1	1		1	1
Output control	6	1	1			
Percentage of remaining fuel	√			√	√	√
Door open alarm	√					
Relay(Enigine cut off)	√	√	√			
Buzzer				√	√	√
Setting cable	√	√	√	√	√	√
Microphone&speaker	√					
External camera	√					
Abnormal water temperature alarm	√					
Temperature sensor	√					
Fuel level corrector	√					
HT-196(RFID)	√	√	√	√		
HT-192B(OBD)	√					
OBD extension cable (16P)	√			√	√	√
OBD extension cable (9P)	√			√	√	√
OBD extension cable (6P)	√			√	√	√
Certificates	FCC/CE/E-mark	FCC		FCC/CE/E-mark	CE	CE

Function Comparasion Sheet

Function	Model					
	IDD-213TH	IDD-218G	IDD-212B	SAT-802	SAT-802S	SAT-803
Iridium communication(global data transmission)				√	√	
GSM+GPS module	√	√		√	√	
UMTS+GPS module						
Bluetooth module			√			
Dimension(mm)	50×28×63	60×30×100	43×26×46	86×43×113	230×230×69	66×30×110
Weight	50g	80g	35g	290g	260g	270g
Waterproof	Ip30	Ip30	Ip30	Ip30	Ip65	Ip30
Easy installation	√	√	√	√	√	√
Global Position Tracking	√	√		√	√	√
Track on demand	√	√		√	√	√
Tracking by time interval	√	√		√	√	√
OBD communication protocol		√	√			
Diagnostic analysis		√	√			
Package upload	√	√		√	√	√
Mileage statistics	√	√	√	√	√	√
Maintenance reminder	√	√		√	√	√
Fuel comsumption statistics		√	√			
Low voltage alarm	√	√	√			
Alarm SMS reminder	√	√				
Over coolant temperature alarm		√	√			
High RPM alarm		√	√			
Fatigue drive alarm	√	√	√			
SOS alarm				√	√	√
Speeding alarm	√	√	√	√	√	√
Route section speeding alarm				√	√	√
Route yaw alarm				√	√	√
Geo-fence	√	√		√	√	√
ACC ON/OFF alarm	√	√	√	√	√	√

Function	Model					
	IDD-213TH	IDD-218G	IDD-212B	SAT-802	SAT-802S	SAT-803
Blind area store/resend	√	√		√	√	√
Call center command	√	√		√	√	√
Temperature measurement				√	√	√
RFID Attendance statistics		√				
Backup battery	3.7V/150mAh	3.7V/160mAh				3.7V/500mAh
Intelligent power saving mode	√	√		√	√	√
OTA (update by wireless)	√	√		√	√	√
Analog input				5	5	5
Digital input						
Output control				1	1	1
Percentage of remaining fuel		√	√	√	√	√
Door open alarm						
Relay(Enigine cut off)				√	√	√
Buzzer		√		√	√	√
Setting cable	√	√	√	√	√	√
Microphone&speaker				√	√	√
External camera				√	√	√
Abnormal water temperature alarm				√	√	√
Temperature sensor				√	√	√
Fuel level corrector						
HT-196(RFID)		√				
HT-192B(OBD)						
OBD extension cable (16P)	√	√	√			
OBD extension cable (9P)	√	√	√			
OBD extension cable (6P)	√	√	√			
Certificates	CE		CE	FCC/CE/E-mark	FCC/CE/E-mark	FCC/CE/E-mark